

EXHIBIT A

Glossary of biotechnology and genetic engineering

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Exhibit A

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entry for *inverted repeat* for an example of a palindrome. *See also* palindromic sequence.

palindromic sequence A segment of duplex DNA whose 5'-to-3' sequence is identical on each DNA strand. The sequence is the same when one strand is read left-to-right and the other strand is read right-to-left. Typically, recognition sites for type II restriction endonucleases are palindromes. *See* the entry for *inverted repeat* for an example of a palindrome.

palisade parenchyma Elongated cells found just beneath the upper epidermis of leaves, and containing many chloroplasts.

pAMP Ampicillin-resistant plasmid. *See* plasmid.

panicle (L. *panicula*, a tuft) An inflorescence, the main axis of which is branched; the branches bear loose racemose flower clusters.

panicle culture Aseptic culture of grain panicle segments to induce microspore germination and development.

panmictic population A population in which mating occurs at random.

panmixis Random mating in a population. *cf* apomixis.

paper raft technique *See* nurse culture.

PAR *See* photosynthetically active radiation.

paracentric inversion An inversion that is entirely within one arm of a chromosome and does not include the centromere.

paraffin [wax] A translucent, white, solid hydrocarbon with a low melting point. Paraffin is used as an embedding medium to support tissue for sectioning for light microscopy observation.

parallel evolution The development of different organisms along similar evolutionary paths due to similar selection pressures acting on them.

Parafilm™ A stretchable film based on paraffin wax; used to seal tubes and Petri dishes. Parafilm™ is a proprietary name which is applied colloquially to similar products.

parahormone A substance with hormone-like properties that is not a secretory product (e.g., ethylene; carbon dioxide).

parameter A value or constant pertaining to an entire population. *cf* statistic.

parasexual cycle A sexual cycle involving changes in chromosome number but differing in time and place from the usual sexual cycle; occurring in those fungi in which the normal cycle is suppressed or apparently absent.

parasexual hybridization *See* somatic hybridization.